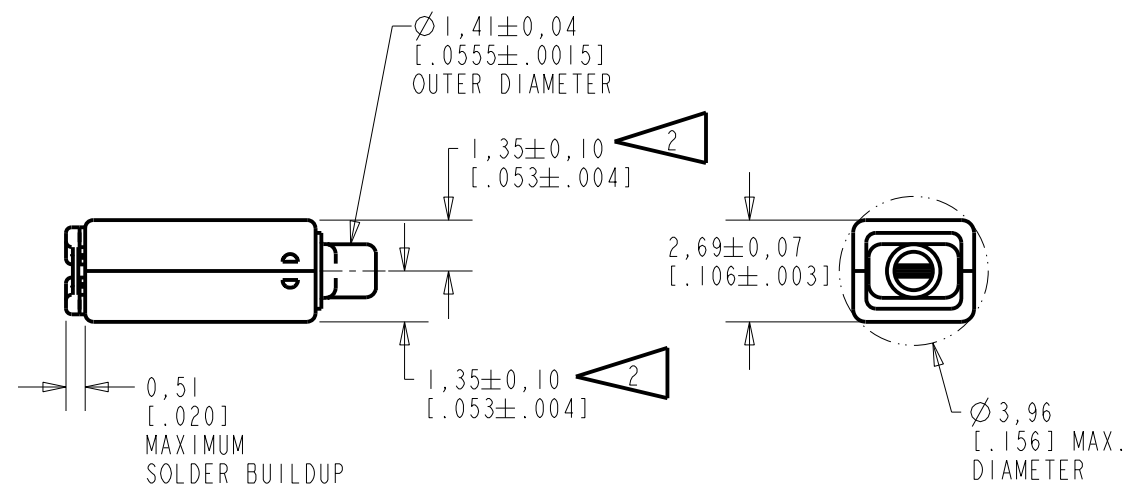
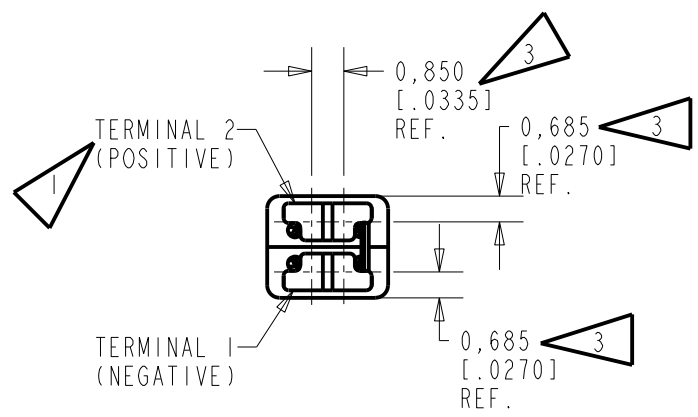
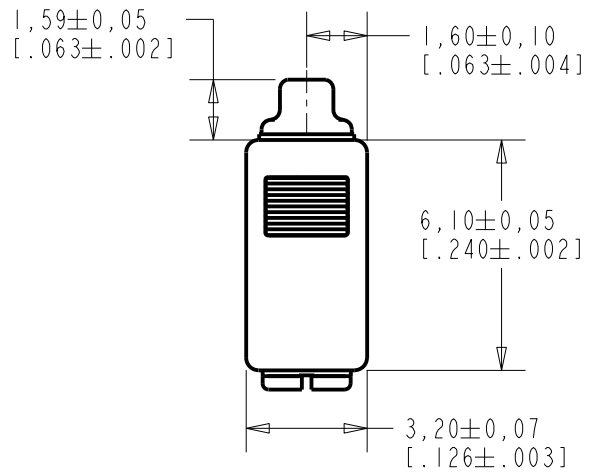


GD30-31488-000
SHT 1.1



- NOTES:
- 1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES AN INCREASE IN PRESSURE AT THE SOUND OUTLET.
 - 2 LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.
 - 3 DIMENSION TO APPROXIMATE CENTER OF TERMINAL PAD.



SCALE 2:1
0.19 GRAMS
DIMENSIONS IN MILLIMETERS [INCHES]

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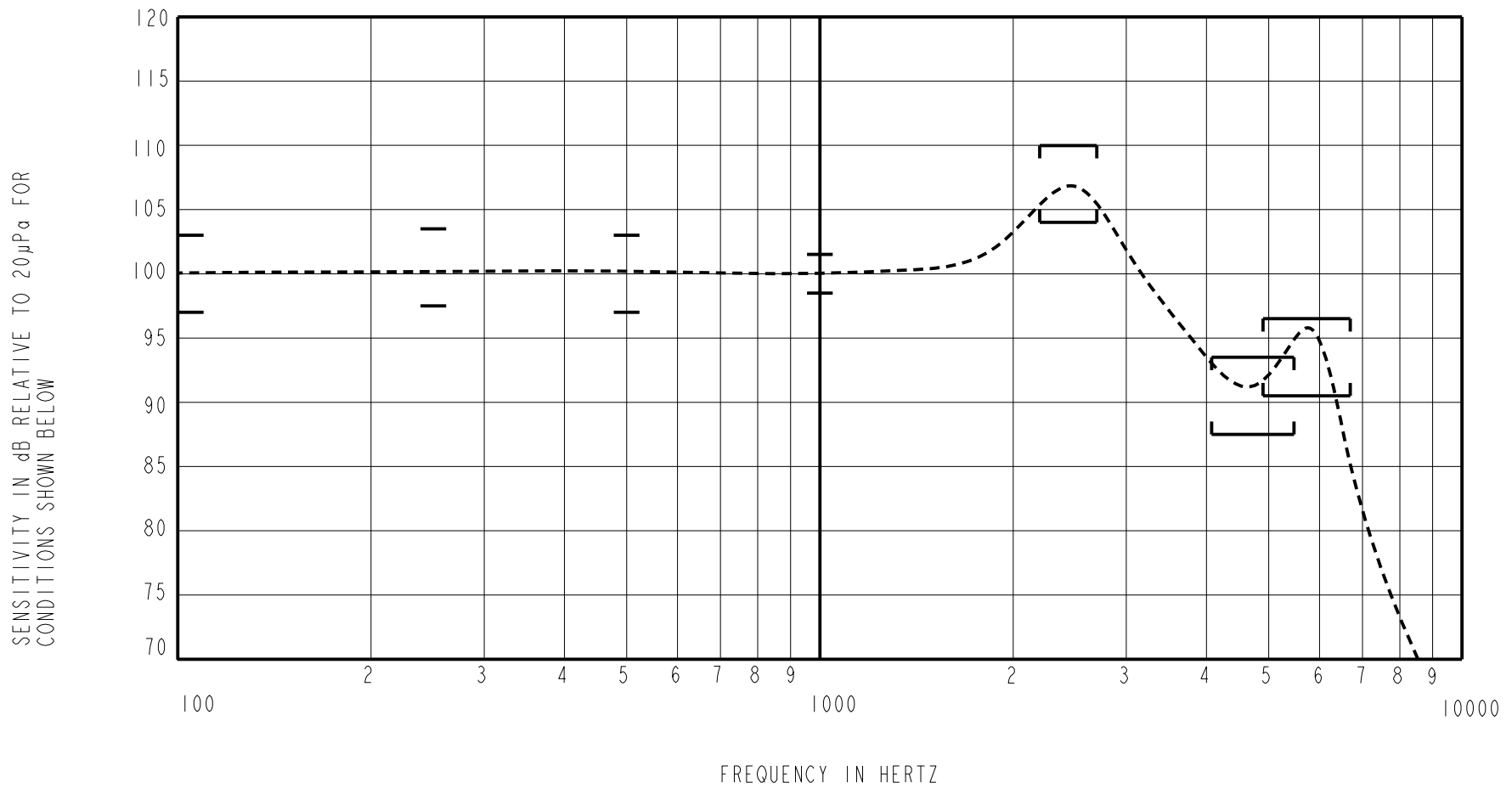
Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	C10112995	11-16-11	Active	A
SCALE: 5:1			DR. BY DATE	
DO NOT SCALE DRAWING			OO 11-16-11	
TITLE: RECEIVER		GD30-31488-000	CK. BY DATE	
OUTLINE DRAWING		SHT 1.1	GJP 11-18-11	
			APP. BY DATE	
			GJP 11-18-11	

INTENDED FOR USE IN CIC, RIC, AND MINI-BTE APPLICATIONS. THIS IS A PAIR OF GE RECEIVERS WITH VERY LOW VIBRATION IN ALL DIRECTIONS. ONE GE30 RECEIVER IS REVERSE MAGNETIZED FOR MAGNETIC LEAKAGE CONSIDERATIONS.

NO DAMPING

CD30-31488-000
SHEET 2.1

CONSTANT VOLTAGE DRIVE CONDITIONS



ACOUSTICAL

SENSITIVITY DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 4. NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
REL	100	-3.0	0.0	+3.0
REL	250	-2.5	+0.5	+3.5
REL	500	-3.0	0.0	+3.0
REF	1000	-1.5	100.0	+1.5
PEAK	2200 - 2700	+4.0	+7.0	+10.0
VALLEY	4075 - 5475	-12.5	-9.5	-6.5
PEAK	4900 - 6700	-9.5	-6.5	-3.5

TABLE 1

TOTAL HARMONIC DISTORTION DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (V)	LIMIT (%)
833	0.289	0	3
1250	0.289	0	3
833	0.813	0	8
1250	0.813	0	8

TABLE 2

MAXIMUM OUTPUT LEVEL (TYPICAL)

POWER (mW)	500 Hz SPL (dB)	REQUIRED VOLTAGE (Vrms)	Peak SPL (dB)	REQUIRED VOLTAGE (Vrms)
10	114.1	1.5	123.8	2.2

TABLE 3

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.289 Vrms, 0 mA DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	10 mm [.394"] LONG X 1 mm [.039"] I.D. ("ITE")
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)
MAXIMUM DRIVE VOLTAGE	2.68 Vrms

TABLE 4

ELECTRICAL

DC RESISTANCE @ 20°C	201 Ohms ± 10%
IMPEDANCE @ 500 Hz	230 Ohms ± 15%
IMPEDANCE @ 1 kHz	281 Ohms ± 15%
INDUCTANCE @ 500 Hz	22.2 mH TYPICAL
CAPACITANCE @ 10 MHz	4.6 pF TYPICAL

TABLE 5

ISOLATION: CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT.

MAGNETIC RADIATION

DESCRIPTION	DOC. NUM
MAGNETIC RADIATION SPECIFICATION	114-002
THE DEFINITION OF THE MEASUREMENT METHODS AND ALL OTHER DETAILS RELATED TO THE MAGNETIC RADIATION OF THIS PART ARE CONTAINED IN THE MOST RECENT VERSION OF THIS DOCUMENT.	

MECHANICAL

PORT LOCATION: 12S

SOLDER TYPE: SAC305

TEMPERATURE

OPERATING: SENSITIVITY WILL NOT VARY MORE THAN +1/-3 dB AT 500 Hz FROM -17°C TO 63°C

STORAGE: -40°C TO 63°C

SHOCK RESISTANCE: 90% SURVIVAL RATE WITH THD @ 1/3 PEAK FREQUENCY LESS THAN 10%, THD @ 1/2 PEAK FREQUENCY LESS THAN 20% AND LESS THAN 3dB CHANGE IN SENSITIVITY AT 1kHz WHEN SUBJECTED TO 15,000 G.

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Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	C10112995	11-16-11	Active	A
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION			DR. BY	DATE
TITLE: RECEIVER PERFORMANCE SPECIFICATION			OQ	11-16-11
			CK. BY	DATE
CD30-31488-000 SHT 2.1			GJP	11-18-11
			APP. BY	DATE
			GJP	11-18-11